HW#81H: Quadratic Formula

Honors Geometry

Due: Friday, February 19th

*Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ PD:\_\_\_\_\_\_*

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| ***Use the quadratic formula to solve the equations below:*** | |
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| ***For each of the equations below, 1) decide which method(s) you would choose to solve each equation (graphing, square roots, factoring, or the quadratic formula), 2) explain why you chose that method over the others, and 3) use the method to solve the equation.*** | |
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| ***Use the discriminant to determine the number of real-number solutions of each equation. You do not need to solve the equations.*** | |
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| 1. A football is punted into the air. Its height*, h,* in meters, after *t* seconds is given by the equation . 2. How high is the ball after 1 second? 3. Find the maximum height of the ball to one decimal place. 4. When does the ball reach its maximum height? 5. When does the ball hit the ground? | |
| 1. Simplify.   Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-02-15 at 11.18.50 PM.png | 1. Simplify.   Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-02-15 at 11.18.56 PM.png |